

EXPRESS MAIL LABEL NO. EL 722193664 US

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8. Apparatus according to claim 7, wherein it is integrated in a plasma display device.

IN THE ABSTRACT:

Please add the attached Abstract.

REMARKS

The specification has been amended to include a reference to the priority application.

The above amendments to the claims have been made to eliminate reference indicia and to meet the requirements of the USPTO.

To meet the requirements of the United States, the Abstract has been added.

No fee is believed to have been incurred by virtue of this amendment. However, if a fee is incurred on the basis of this amendment, please charge such fee against deposit account 07-0832.

Respectfully submitted,
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Enclosures

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Marked Up Claims

1. (Amended) Method for power level control in a display device having a plurality of display elements corresponding to the pixels of a picture,
5 wherein a power level mode selection process is used for increasing the peak white enhancement factor of the display, in which the power value of a video picture is measured and a corresponding power level mode is selected for controlling the display contrast, wherein a picture is divided in a number of blocks $[(S_{11}-S_{58})]$, wherein in each block $[(S_{11}-S_{58})]$ the video
10 levels or values derived from the video levels of the colour components of the pixels are summed up in order to determine the local power values $[(LP)]$ for the picture, **[characterised in that]** wherein a local temperature estimation is performed for the corresponding blocks of the display based on said local power values $[(LP)]$ and the previously estimated local
15 temperature values, wherein in the estimated local temperature values the maximum local temperature $[(MT)]$ in the display is selected, wherein a further step of maximum power level limit $[(PLM)]$ determination is performed based on the maximum local temperature $[(MT)]$, and wherein the power level limit $[(PLM)]$ is used to restrict the range of selectable
20 power level modes in the power level mode selection process to power level modes having a power level below or equal to said power level limit $[(PLM)]$.
2. (Amended) Method according to claim 1, wherein for local temperature
25 estimation of a block $[(S_{11}-S_{58})]$, the power dissipation not only of the local block $[(S_{11}-S_{58})]$ but also of a number of [neighbouring] neighboring blocks $[(S_{11}-S_{58})]$ is taken into account.
3. (Amended) Method according to claim 1 [or 2], wherein the maximum local
30 temperature determination for the display is performed once in a number of video frames.

4. Method according to claim 3, wherein the steps of local power value determination and local temperature estimation are performed only for one or more selected blocks of the whole picture within a frame period.
- 5 5. (Amended) Method according to claim 3 [or 4], wherein a picture is divided in 40 blocks and the maximum local temperature determination is performed once within 40 frame periods.
- 10 6. (Amended) Method according to [one of claims 1 to 5] claim 1, wherein the switching between maximum allowed power level limits corresponding to the determined maximum local temperature is controlled with a power level mode against picture power curve that falls if the picture power is increasing and that rises if the picture power is decreasing, and with a delay between falling and rising, respectively rising and falling if the change
15 direction of the picture power value changes.
- 20 7. (Amended) Apparatus for carrying out the method according to [one of the previous claims] claim 1, the apparatus having included a power level determination and selection unit [(16, 17)], and a local power determination unit [(18)], wherein for a picture that is divided in a number of blocks [(S₁₁-S₅₈)], per block [(S₁₁-S₅₈)] the video levels or values derived from the video levels of the colour components of the pixels are summed up in order to determine the local power values [(LP)] for the picture, [**characterised in that**] wherein, said apparatus further includes a local temperature estimator
25 [(19)], that performs a local temperature estimation per block of the display based on said local power values [(LP)] and the previously estimated local temperature values, a maximum local temperature selector [(20)] that selects the maximum local temperature from the estimated local temperatures, a maximum power level limit selector [(21)] that assigns a
30 maximum power level limit to the selected maximum local temperature, and a power level limiter [(22)], wherein the power level limiter [(22)] restricts the range of selectable power level modes in the power level mode selector

[(21)] to power level modes having a power level below or equal to said selected maximum power level limit [(PLM)].

8. Apparatus according to claim 7, wherein it is integrated in a plasma display device.